

SMALL RED LENTIL: CDC IMPULSE CL[®]

CDC Impulse is a small red lentil Clearfield[®] variety. It was registered and released to Saskatchewan and Alberta Select Seed Growers in 2014.

CDC Impulse CL was tested in the Lentil Registration Recommendation Trial “C” in 2010, 2011 and 2012. In these trials, the yield was similar to that of CDC Maxim. In 7 years of testing in the Coop and Regional trials in Saskatchewan (Table 1), CDC Proclaim yielded 108% of CDC Maxim in the brown and dark brown soil zones. CDC Impulse has imidazolinone tolerance. Maturity is later than CDC Maxim; a positive for the southern regions of the lentil production zone. Seed type is larger diameter and seed weight, acceptable for specific segments of dehulled red lentil market. CDC Impulse has PBR’91 protection.

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- Strengths:**
- Seed type suitable for segments of the small red cotyledon lentil market.
 - Imidazolinone tolerance
 - Seed weight and diameter is greater than CDC Maxim.
 - Later maturing than CDC Maxim
 - Taller than CDC Maxim
- Neutral:**
- Similar in yield, disease ratings and lodging resistance compared to CDC Maxim.
- Weaknesses:**
- Anthraxnose resistance rating below that of CDC Invincible.

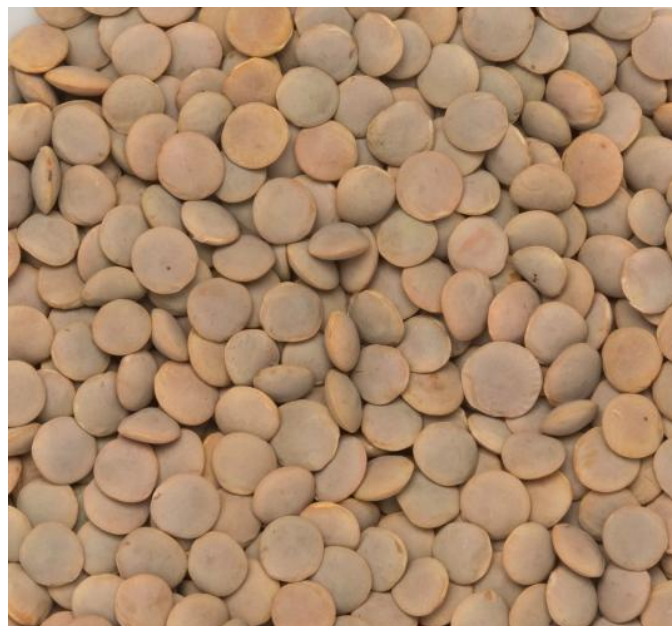


Table 1: Agronomic performance for CDC Impulse from Coop and Regional trials in Saskatchewan – adapted from Varieties of Grain Crops 2017

Variety	Market class	Year of release	Years Tested*	Yield % of CDC Maxim		Disease Resistance		Maturity	Days to Flower	Height (cm)	Seed Weight (g/1000)
				Area 1-2**	Area 3-4**	Ascochyta	Anthracnose (race 1)				
CDC Maxim	Small red	2007	10	100	100	MR	MR	Early-mid	51	34	40
CDC Impulse	Small red	2014	7	108	95	MR	MR	Early-mid	52	37	44
CDC Proclaim	Small red	2014	6	105	101	MR	MR	Early-mid	51	34	40
CDC Redmoon	Small red	2015	6	115	102	MR	MR	Early-mid	52	33	41
4371-4	Small red	2016	4	111	108	MR	MR	Early-mid	53	33	38
3674-15	Small red	2016	5	111	113	MR	MR	Early-mid	52	34	42
CDC Roxy	Extra small red	2014	6	103	102	MR	MR	Early-mid	53	34	32

* Coop and Regional trials in Saskatchewan **Source:** Varieties of Grain Crops 2017

**Area 1: Brown soil zone; Area 2: Dark brown; Area 3: Black; Area 4: Dark gray